

CLAIMS

What is claimed is:

1 1. A suspension strut comprising:

2 a cylinder;

3 a chamber surrounding said cylinder, said chamber being at least partially

4 filled with hardenable material; and

5 a spring collar having a sleeve section which is received in said
6 hardenable material so that said material, in a solid state, transmits a supporting force
7 from the cylinder to the spring collar;

8 wherein said sleeve section can be installed in said chamber at a
9 predetermined angle to said cylinder.

1 2. A suspension strut as in claim 1, wherein the sleeve section has a
2 radial clearance with respect to said cylinder, said clearance limiting said predetermined
3 angle.

1 3. A suspension strut as in claim 1 further comprising a support ring which
2 is axially fixed to said cylinder, said support ring and said cylinder forming said
3 chamber.

1 4. A suspension strut as in claim 3 wherein said support ring comprises a
2 base and a sleeve, said sleeve section being received between said sleeve and
3 cylinder.

1 5. A suspension strut as in claim 4 wherein said sleeve section is
2 separated from said sleeve by a radial gap.

1 6. A suspension strut as in claim 4 further comprising a seal between said
2 sleeve section and said cylinder, and a seal between said sleeve section and said
3 sleeve.

1 7. The suspension strut unit of claim 2 further comprising a convexly
2 shaped bearing area between said sleeve section and said cylinder, said radial
3 clearance being almost completely closed by said convexly shaped bearing area.

1 8. A suspension strut as in claim 7, wherein said bearing area is formed
2 by said cylinder.

1 9. A suspension strut as in claim 7, wherein said bearing area is formed
2 by a separate bearing element.

1 10. A suspension strut as in claim 7 further comprising a support ring
2 which is axially fixed to said cylinder, said support ring and said cylinder forming said
3 chamber, said support ring being supported at a predetermined angle with respect to
4 said cylinder.

1 11. A suspension strut as in claim 10 further comprising a bearing fixed to
2 cylinder, said bearing having a concave bearing surface, said support ring having a
3 convex bearing surface which is supported by said concave bearing surface.

- 1 12. A suspension strut as in claim 11 wherein said convex bearing
- 2 surface and said concave bearing surface have respective radii of curvature with a
- 3 common center.